

II. Listing of Claims

Please amend the claims as follows:

CLAIMS:

1. (Currently Amended) A fired, basic, refractory, industrial ceramic shaped body comprising at least one basic resistor component and an elasticizer component, characterized in that wherein the elasticizer component is a calcium aluminate having a $\text{CaO}/\text{Al}_2\text{O}_3$ ratio of from 0.14 to 0.2, ~~in particular of the chemical formula $\text{CaAl}_{12}\text{O}_{19}$.~~
2. (Currently Amended) The shaped body as claimed in claim 1, characterized in that the elasticizer component has the oxide formula $\text{CaO} \cdot 6\text{Al}_2\text{O}_3$ ~~or the abbreviated formula CA_6 .~~
3. (Currently Amended) The shaped body as claimed in claim 1 ~~and/or 2~~, characterized in that wherein the elasticizer component contains up to 10% by mass of secondary phases.
4. (Currently Amended) The shaped body as claimed in claim 3, characterized in that wherein the elasticizer component contains one or more of the group including SiO_2 and/or TiO_2 and/or Fe_2O_3 and /or MgO as secondary phases.

5. (Currently Amended) The shaped body as claimed in ~~one or more of claims 1 to 4,~~ characterized in that claim 1, wherein up to 58% by mass of Al_2O_3 ~~has been~~ is replaced by Fe_2O_3 in the elasticizer component.

6. (Currently Amended) The shaped body as claimed in ~~one or more of claims 1 to 5,~~ characterized in that claim 1, wherein Ca^{2+} has been partly replaced by Ba^{2+} and/or Sr^{2+} in the elasticizer component.

7. (Currently Amended) The shaped body as claimed in ~~one or more of claims 1 to 6,~~ characterized in that claim 1, wherein the resistor component ~~is~~ contains one or more of the following, sintered MgO and/or, fused magnesia and/or, sintered ~~doloma~~ dolomite, and ~~for fused doloma~~ dolomite.

8. (Currently Amended) The shaped body as claimed in ~~one or more of claims 1 to 7,~~ characterized in that claim 1, wherein the shaped body comprises from 60 to 99.5% by mass of the resistor component and from 0.5 to 40% by mass of the elasticizer component.

9. (Currently Amended) The shaped body as claimed in ~~one or more of claims 1 to 8,~~ characterized in that claim 1, wherein at least one further elasticizer known ~~per se~~ is present in addition to the elasticizer component.

10. (Currently Amended) The shaped body as claimed in ~~one or more of claims 1 to 9~~, characterized by claim 1, wherein the body having an overall density of from 2.5 to 3.2 g/cm³.

11. (Currently Amended) The shaped body as claimed in ~~one or more of claims 1 to 10~~, characterized by claim 1, wherein the body having a porosity of from 12 to 25% by volume, ~~in particular from 14 to 23% by volume~~.

12. (New) The shaped body as claimed in claim 1, wherein the body having a porosity of from 14 to 23% volume.

~~42~~ 13. (Currently Amended) The shaped body as claimed in ~~one or more of claims 1 to 11~~, characterized by claim 1, wherein the body having a cold compressive strength above 35 MPa, ~~in particular above 45 MPa~~, and a cold flexural strength above 2 MPa.

14. (New) The shaped body as claimed in claim 1, wherein the body having a cold compressive strength above 45 MPa, and a cold flexural strength above 2 MPa.

~~43~~ 15. (Currently Amended) The shaped body as claimed in ~~one or more of claims 1 to 12~~, characterized by claim 1, wherein the body having a modulus of elasticity of from 14 to 35 GPa, ~~in particular from 15 to 32 GPa~~, and a shear modulus of from 6 to 15 GPa, ~~in particular from 7 to 14 GPa~~.

16. (New) The shaped body as claimed in claim 1, wherein the body having a modulus of elasticity of from 15 to 32GPa, and a shear modulus of from 7 to 14 GPa.

~~14~~ 17. (Currently Amended) The shaped body as claimed in ~~one or more of claims 1 to 13, characterized by claim 1, wherein the body having~~ a thermal shock resistance of ~~>80~~ greater than 80.

~~15~~ 18. (Currently Amended) A process for producing a shaped body as claimed in ~~one or more of claims 1 to 14~~ claim 1, which comprises the steps of mixing at least one resistor component with at least one CA₆ elasticizer ~~component and component~~, admixing the mixture with a ~~binder and binder~~, mixing it the components to form a shapeable composition, subsequently shaping the composition to produce shaped bodies ~~and bodies~~, drying the shaped ~~bodies~~ bodies, and then firing the shaped bodies at high temperatures to sinter them.

~~16~~ 19. (Currently Amended) The process as claimed in claim ~~15, characterized in that~~ 18, wherein lignin sulfonate is used as the binder.

~~17~~ 20. (Currently Amended) The process as claimed in claim ~~15 and/or 16, characterized in that~~ wherein the resistor component used has a maximum particle size of 4 mm and a particle size distribution corresponding to a Fuller curve.

~~48~~ 21. (Currently Amended) The process as claimed in ~~one or more of claims 15 to 17, characterized in that~~ claim 18, wherein the elasticizer component used has a particle size range from 0.5 to 4 mm.

~~49~~ 22. (Currently Amended) The process as claimed in ~~one or more of claims 15 to 18, characterized in that~~ claim 18, wherein the drying step is carried out at temperatures of from 100 to 120°C.

~~20~~ 23. (Currently Amended) The process as claimed in ~~one or more of claims 15 to 19, characterized in that~~ claim 18, wherein the sintering step is carried out at temperatures of from 1400 to 1700°C, ~~in particular from 1550 to 1650°C.~~

24. (New) The process as claimed in claim 18, wherein the sintering step is carried out at temperatures of from 1550 to 1650°C.

~~24~~ 25. (Currently Amended) The process as claimed in ~~one or more of claims 15 to 20, characterized in~~ claim 18, wherein that from 60 to 99.5% by mass of resistor component and from 0.5 to 40% by mass of elasticizer component are used.

~~22~~ 26. (Currently Amended) The process as claimed in ~~one or more of claims 15 to 21, characterized in that~~ claim 18, wherein at least one presynthesized elasticizer component is used.

23 27. (Currently Amended) The process as claimed in ~~one or more of claims 15 to 22~~, characterized in that claim 18, wherein a granulated mixture for the elasticizer component obtained by mixing appropriate raw materials is mixed with the resistor component and the elasticizer component is generated during firing.

24 28. (Currently Amended) The process as claimed in ~~one or more of claims 15 to 23~~, characterized in that claim 18, wherein the firing step is carried out so that microcrack formation between the resistor matrix and the elasticizer component occurs.

25 29. (Currently Amended) The use process of shaped bodies as claimed in ~~one or more of claims 1 to 14 produced as claimed in one or more of claims 15 to 24~~ claim 18, further comprising using the shaped body in a masonry lining of a rotary tube furnace.

26 30. (Currently Amended) The use process as claimed in ~~claim 25~~ claim 29, characterized in that wherein the shaped bodies are located in the sintering zone of the rotary tube furnace.

27 31. (Currently Amended) The use process as claimed in ~~claim 25 and/or 26~~, characterized in that claim 29, wherein the shaped bodies are located in the lower transition zone of the rotary tube furnace.

28 32. (Currently Amended) The use process as claimed in ~~one or more of claims 25 to 27, characterized in that~~ claim 29, wherein the shaped bodies are located in a rotary tube furnace for cement.